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PATENT Docket No. P1410

#### IN THE

### UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: SERGEY LOPATIN

ALEXANDER H. NICKEL

PAUL L. KING

SERIAL NO.:

TO BE ASSIGNED

FILED:

FILED HEREWITH

TITLE:

METHOD OF REDUCING ELECTROMIGRATION BY FORMING AN ELECTROPLATED COPPER-ZINC INTERCONNECT AND A SEMICONDUCTOR DEVICE

THEREBY FORMED

BOX PATENT APPLICATION COMMISSIONER FOR PATENTS WASHINGTON, D.C. 20231

#### TRANSMITTAL LETTER

Dear Sir:

In connection with the above-referenced matter, transmitted herewith are the following:

- 1. Utility Patent Application Transmittal (1 page);
- 2. Application Data Sheet C.F.R.1.76 (2 pages);
- 3. Specification (14 pages), Claims (7 pages), and Abstract (1 page);

- 4. Informal Drawings (5 sheets, 7 figures);
- 5. Declaration and Power of Attorney for Patent Application (2 pages);
- 6. Request and Certification under 35 U.S.C.122(b)(2)(B)(i) (1 page);
- 7. Recordation Form Cover Sheet (1 page);
- 8. Assignment Agreement (4 pages);
- 9. Fee Transmittal for FY 2002 (1 page);
- 10. Check No. 4719 in the amount of \$740.00 for basic application fee;
- 11. Check No. 4720 in the amount of \$40.00 for recordation fee; and
- 12. Post Cards in acknowledgment of all transmitted materials (2 postcards).

#### CLAIMS AS FILED BY A LARGE/SMALL ENTITY

(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) BASIC FEE \$740.00
TOTAL CLAIMS	20-20=	0	x \$18.00	0.00
INDEPENDENT CLAIMS	3-3=-0	00	x \$84.00	0.00
ANY MULTIPLE CLAIMS	0		0	
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TOTAL FILING FEE				\$740.00

Please date-stamp the enclosed postcard and return same to the undersigned in acknowledgment of receipt of all transmitted material.

Respectfully submitted,

May Lin DeHaan Reg. No. 42,472

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# **FEE TRANSMITTAL** for FY 2002

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

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Complete if Known				
Application Number	Filed Herewith			
Filing Date	Filed Herewith			
First Named Inventor	SERGEY LOPATIN			
Examiner Name	Unknown			
Group Art Unit	Unknown			
Attorney Docket No.	P1410			

METHOD OF PAYMENT	FEE CALCULATION (continued)	
The Commissioner is hereby authorized to charge	3. ADDITIONAL FEES	
indicated fees and credit any overpayments to:  Deposit	Large Small	
Account	Entity Entity Fee Fee Fee Fee Description	Fee Paid
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Account Name	105 130 205 65 Surcharge - late filing fee or oath	
Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17	127 50 227 25 Surcharge - late provisional filing fee or cover sheet	
Applicant claims small entity status.	139 130 139 130 Non-English specification	
See 37 CFR 1.27  2. XX Payment Enclosed: #4719 &4720	147 2,520 147 2,520 For filing a request for ex parte reexamination	
Check C Credit card Money Course	112 920* 112 920* Requesting publication of SIR prior to Examiner action	
FEE CALCULATION	113 1,840* 113 1,840* Requesting publication of SIR after Examiner action	
	115 110 215 55 Extension for reply within first month	
BASIC FILING FEE     Large Entity Small Entity	116 400 216 200 Extension for reply within second month	
Fee Fee Fee Fee Description	117 920 217 460 Extension for reply within third month	
Code (\$) Code (\$) Fee Paid	118 1,440 218 720 Extension for reply within fourth month	
101 740 201 370 Utility filing fee 740.00	128 1,960 228 980 Extension for reply within fifth month	
107 510 207 255 Plant filing fee	119 320 219 160 Notice of Appeal	
108 740 208 370 Reissue filing fee	120 320 220 160 Filling a brief in support of an appeal	
114 160 214 80 Provisional filing fee	121 280 221 140 Request for oral hearing	
	138 1,510 138 1,510 Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 740.00	140 110 240 55 Petition to revive - unavoidable	
2. EXTRA CLAIM FEES Fee from	141 1,280 241 640 Petition to revive - unintentional	
Extra Claims below Fee Paid	142 1,280 242 640 Utility issue fee (or reissue)	
Total Claims 20 -20** = 0 × = 0.00	143 460 243 230 Design issue fee	
Independent 3 - 3** = 0 x = 0.00	144 620 244 310 Plant issue fee	
Multiple Dependent	122 130 122 130 Petitions to the Commissioner	
	123 50 123 50 Processing fee under 37 CFR 1.17(q)	
Large Entity Small Entity Fee Fee Fee Fee Fee Description	126 180 126 180 Submission of Information Disclosure Stmt	
Code (\$) Code (\$) 103 18 203 9 Claims in excess of 20	581 40 581 40 Recording each patent assignment per property (times number of properties)	40.00
102 84 202 42 Independent claims in excess of 3	146 740 246 370 Filing a submission after final rejection (37 CFR § 1.129(a))	
104 280 204 140 Multiple dependent claim, if not paid	149 740 249 370 For each additional invention to be	
109 84 209 42 ** Reissue independent claims over original patent	examined (37 CFR § 1.129(b))	
110 18 210 9 ** Reissue claims in excess of 20	179 740 279 370 Request for Continued Examination (RCE)	
and over original patent	169 900 169 900 Request for expedited examination of a design application	
SUBTOTAL (2) (\$) 0.00	Other fee (specify)	
**or number previously paid, if greater; For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$)	40.00

SUBMITTED BY				Complete (#	f applicable)
Name (Print/Type)	May Lin DeHaan	Registration No. (Attorney/Agent)	42,472	Telephone	831-649-8800
Signature	Man din Dat	Iran		Date	02/26/02

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## REQUEST AND CERTIFICATION UNDER 35 U.S.C. 122(b)(2)(B)(i)

First Named Inventor		SERGEY LOPATIN	
Title METHOD OF REDUCING ELECTROMIGRATION B' FORMINGDEVICE THEREBY FORMED			
ŀ	Oocket Number	P1410	

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

02/26/02

Date

0.3......

May Lin DeHaan, Reg No. 42,472

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application upon filing.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant must notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).

Burden Hour Statement: This collection of information is required by 37 CFR 1.213(a). The information is used by the public to request that an application not be published under 35 U.S.C. 122(b) (and the PTO to process that request). Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 6 minutes to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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Country

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May Lin DeHaan

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	PATENT	APPLICATION	First In	ventor		RGEY LOPA		į
	TRA	NSMITTAL	Title	METHOD OF BYFORMING	REDUC DEV	ING ELEC	TROMIGR REBY FOR	ATIO
	(Only for new nonprovision	nal applications under 37 CFR 1.53(b))	Expres.	s Mail Label N	o. EL	91221602	6US	_)
	APPLICA	TION ELEMENTS	ADD	RESS TO:	Box F	tant Commission	ion	nts O
		ceming utility patent application content				nington, DC 20		
	1. X Fee Transmittal F	om (e.g., PTO/SB/17) duplicate for fee processing!	7.	CD-ROM or C Computer Pro		duplicate, large Appendix)	e table or	Œ.
	2. Applicant claims s See 37 CFR 1.27			cleotide and/or Ar applicable, all ned	mino Aci	id Sequence S	ubmission	1. 1.
	3. X Specification (preferred arrangement)	[Total Pages 22]	a.	Computer F	Readable	Form (CRF)		5
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		equence listing, a table, program listing appendix		ii. 🔲 pape	er			
	- Background of	the Invention	C.	Statements	verifyin	g identity of ab	ove copies	
L <sub>4</sub> L	- Brief Summary	of the Invention on of the Drawings (if filed)		ACCOMPANY	ING A	PPLICATION	ON PARTS	<u>.                                    </u>
142	- Detailed Descri		9. [	X Assignment	Papers	(cover sheet &	document(s)	))
*** ***	- Claim(s) - Abstract of the	Disclosure	10.	37 CFR 3.73 (when there			Power of Attorney	
i.	4. X Drawing(s) (35 U	I.S.C. 113) [Total Sheets 5	] [11.[	English Trai	nslation	Document (if a		
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:{: ' <b>[</b> *]	[♥]	, , , , , , , , , , , , , , , , , , , ,	13.	Preliminary	•			
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	named in	the prior application, see 37 CFR and 1.33(b).	16.		Applicat	uest under 35 nt must attach		3/35
Ch.	6. X Application Data	Sheet, See 37 CFR 1.76	17.	<del>,</del>		No.s 47	L9&472	20
7 <b>5</b> 2		CATION, check appropriate box, and s	upply the req	uisite information	below a	nd in a prelimi	nary amendn	nent,
	or in an Application Data She	eet under 37 CFR 1.76:  Divisional Continuation-in-part (CI	P)	of prior application No.	:			
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42,472